M. A. R. 57 (Rule 116) No. E 495702

Measurement Book

Serial No. 1st and Final

Name of work Improvements to roads and drains @ A-Sector, B-Sector LIG and MIG and surrounding areas in ward No: 4 Yelahanka new town sub division. From To

Name of Contractor or nature of Agency

Date of commencement of work

(Package-04)

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2					7	8
	Est cost 300,00000/- (3.00 Cr)						
	Name of Contractor:- M.S. Venkatesh. (M.S. V Constructions Company) No 163, 5th Cross, 2nd Main. Prakashnagara Bangalore-560021						
	Work order No:- EE/YNKD/EPMT-5/W.O/126/2020-21						21-09-2020
	Work code NO:- 004-19-00014.						
	Agreement No:- BBMP/EE/YNKD/EPMT/AG/109/2020-21						18/09/2020
	Commissioner BBMP para No:- PSR/G)8833/2020						
	AS/EE/YNKD/40/2020-21 Dt 28/8/2020,						11/3/2020.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6		8
						10-12-2018	
	TS/CE/YNK2/161/2018-19 Dt 10-12-2018						
	Tender Notification No: BBMP/EE/YNKD/EPMT-5/2019-20 Dt 8/2/2019						
	Date of commencement of Work:-						
(1)	Removing and refixing stone slabs of drain and pointing in cm (1:3)						
	PRE-Measurements Recorded vide Excell sheet Pg No (1) to (11)						
	Qty = - - - - =					3812.59 Sqmt	
	Rate @ Rs 116.85/Sqmt					Rs 4,45,561.00	

M. A. R. 57 (Rule 116) No. E

Measurement Book

495703

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(2)	Earth Work Excavation by manual means in ordinary Soil involving in average horizontal throw upto 2mt and an average lift upto 1.5mt Excavated surface Levelled and sides neatly dressed. The disposed Earth to be Levelled neatly after breaking of clods Completed as per Specification. PRE-Measurements Recorded vide Excell						

Rate Rs 244.84/Cum Sheet Pg No (12) to (18) Qty = 2335.95 Cum

Rs 571934.00

(3) providing and laying in position plain cement concrete of Mix (1:3:6) with OPC cement @ 220kg/ with 40mm and down size granite metal coarse ... etc, complete

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	PRE-Measurements Recorded Vide Excell Sheet Pg No. (19) Qty = - - - - = 34.65 2335.95 Cum 200289.00/- Rs 571934.00/- Rate @ Rs 5780.37/ cum.						
(4)	providing and laying in position reinforced cement Concrete of design Mix M20 with OPC. cement @ 320 kg/ with 20mm and down Size graded granite Metal Coarse.						

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

495704

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	aggregate) @0.878 cum and fine aggregate @0.458 cum with super plasticiser @ 3lt) conforming to IS 9103-1999. Reaffirmed 2008. Machine mixed. Concrete laid in layers not exceeding 15 cm thick vibrated for all works ...etc., complete. Measurements Recorded vide Excell sheet Ag Nos. (23) to (26) Qty :- - - - = 153.90 cum						
	Rate @ Rs 6297.87/ cum.					Rs 969242-00/-	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(5)	providing and removing Centering shuttering Strutting propping etc, and removal of form work for vertical surface such as walls @ any thickness, including attached pilasters etc, complete						
	Measurements as Recorded vide Excell sheet Pg No. (22)						
	Qty = - - - = 612.00 Sqmt						
	Rate @ Rs 398.42/ Sqmt				Rs	243833/-	

M. A. R. 57 (Rule 116) No. E

Measurement Book

495705

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth / Depth		
1	2	3	4	5 / 6	7	8
	(6) providing for Rcc works bending hooking, placing in position lapping and or ~~Weld~~ welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete. as per design. TMT Fe 500 steel reinforcement including straightening, cutting PRE-Measurements Recorded vide Excell Sheet Pg No. (20) to (21)					

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Qty =	-	-	-	- 2	8.03	Tonns
	Rate @ Rs 78977.64/tonns					Rs 634190.00/-	
(7)	providing and laying pre-cast drain cover slab of 100 mm thickness in cm(1:3) including cost of all materials, labour curing transportation, loading unloading etc., complete.						
	Measurements Recorded vide Excell						

Sheet Pg No. (27)

M. A. R. 57 (Rule 116) No. E

Measurement Book

495706

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty = -	-	-	-	=	1646.51 Sqmt	
	Rate @ Rs. 2199.54/Sqm.					Rs 36,21,564/-	
	(8) providing and laying pre-cast drain Cover slab of 250mm thickness in cm (1:3) including Cost of all Materials labour curing transportation loading & reloading etc, Complete						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurements Recorded vide Excell sheet Pg No. (28)						
	Qty = - - -					= 170.24 Sqmt	
	Rate @ Rs 5688.36/Sqmt.					Rs 9,68,86.00/-	
(9)	Removing and resetting of kerb stones Measurements Recorded vide Excell sheet Pg No. (29) to (38)						

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

495707

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty = -	-	-	-	- = 3665.90 Kgm		
	Rate @ Rs 110.18/kgmt					Rs 4,03,908/-	
	(10) providing and fixing pre-cast Solid Concrete Kerb stones of size (450 x 150 x 500) mm made out of cc (1:2:4) and finished with CM (1:3) plastering. and finishing curing etc., Complete.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurements Recorded vide Excell Sheet Pg No. (39)						
	Qty = - - - - = 3669.000 No,						
	Rate @ Rs 490.79/- Rs 1800762/-						
(11)	painting two coats after filling the surface with synthetic Enamel paint in approved shades on new plastered Concrete surface with Materials Labour complete as per specifications.						

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

495708

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurements Recorded vide Excell sheet Pg No. (40) to (44)						
	Qty = - - - -					= 628.44 Sqmt	
	Rate @ Rs 89.03/Sqmt					Rs 55950/-	
(12)	Scarifying bituminous Carpet/Surface thick along with premix carpet dressing by road roller attached.						

5595 0
R

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	With Scarifier Without disturbing the Base and stacking the debries including cost of all materials complete as per specifications.						
	Measurements Recorded vide Excell sheet Pg No. (53)						
	Qty:-	-	-	-	2	363.60 Cum	
	Rate @ Rs 93.80/Cum					Rs 34,105/-	

M. A. R. 57 (Rule 116) No. E

Measurement Book

495709

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(13) Excavation for road work in all types of soil with hydraulic Excavator of 0.90 Cum bucket Capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines gradients and cross sections and transporting to the Embankment location ... etc, Complete.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurements Recorded vide Excel Sheet Pg no. (48) to (52)						
	Qty = - - - -					= 3517.14 cum	
	Rate @ Rs. 145.79/ cum.					Rs 512763/-	
(14)	Construction of granular Sub-base by providing close graded Material, Mixing in a mechanical Mix plant @ OMC Carriage of Mixed Material						

M. A. R. 57 (Rule 116) No. E 495710

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	to work site. Spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density ... etc., complete.						
	Measurements Recorded Vide Excell Sheet Pg No. (54) to (57)						
	Qty = - - - - =					1078.07 cum	
	Rate @ Rs 2094.47/cum					Rs 2257,985/-	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(15) providing laying spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix Macadam specification. including pre-mixing the material with water @ one in mechanical mix plant carriage of mixed method of tipper to site ... etc, complete						
	Measurements Recorded Vide Excell sheet Pg No: (58) to (61)						

M. A. R. 57 (Rule 116) No. E
Measurement Book 495711

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty = -	-	-	-	=	1486.10 cum	
	Rate @ Rs. 2101.14/ cum.					Rs 3122504/-	
	(16) providing and applying primer coat with SS bitumen Emulsion on prepared surface of granular base such as WMM. Including, cleaning of road surface & spraying primer @ the rate of 0.60 kg/sqm						

MEASUREMENT BOOK

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	etc, complete						
	Measurements Recorded vide						
	Excell sheet pg no. (62) to (65)						
	Qty: - - - - = 7187.10 sqm						
	Rate @ Rs 3784/ sqmt.					Rs 271959/-	
(17).	providing and laying dense graded bituminous Macadam using crushed						

M. A. R. 57 (Rule 116) No. E 495712
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	aggregates of specified grading pre-mixed With VG30 grade bitumen/oil Binder and transporting the hot Mix to Work site., Laying to the required grade, Level and alignment. rolling With Smooth Wheeled Vibratory & tandem rollers to achieve ~~the~~ the desired Compaction. ...etc., Complete Measurements Recorded vide Excel Sheet Pg No. (66) to (69)						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty =	-	-	-	-	= 359.30 cum	
	Rate @ Rs 7494.23/cum.					Rs 2692.67/-	
18	Cleaning the existing black topped surface with brooms soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous treatment including ... etc, complete						

M. A. R. 57 (Rule 116) No. E 495713

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurements Recorded vide Excell sheet Pg No. (70) to (75)						
	Qty = - - - - =					22214.60 Sqmt	
	Rate @ Rs 5.56/Sqmt					Rs 123513/-	
(20) (19)	providing and applying tack coat using 80/100 grade bitumen (VG10) 2.5 kg/10 Sqmt						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	heating bitumen in boiler fitted with spray set including cleaning of road surface) including cost of all materials etc, complete						
	Measurements Recorded vide Excell sheet Pg no. (76) to (81)						
	Qty =	-	-	-	=	22214.60 kgm	
	Rate @ Rs 15.58 / kgmt.					Rs 346103/-	

M. A. R. 57 (Rule 116) No. E 495714

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(20) Providing laying bituminous concrete using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (30mm to 45mm) crushed aggregates of specified grading pre-mixed with 5.4% VG 30 grade bituminous binder and filler transporting the hot mix to work site. laying to the required grade Level --- etc, complete.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurements Recorded vide Excell sheet Pg no (82) to (87)						
	Qty = - - - -					= 888.59 cum	
	Rate @ Rs. 8656.00/cum					Rs 7691715/-	
(21)	Road marking with hot Applied Thermoplastic compound with Reflectorising glass beads on bituminous surface						

M. A. R. 57 (Rule 116) No. E 495715

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads @ 250 grams/sqm area, thickness of 2.5mm is exclusive of surface applied glass beads ... ex complete						
	Measurements Recorded vide Excell Sheet page No = (88) to (93)						
	Qty =	-	-	-	=	1139.601 sqm	
	Rate Rs 477.43/sqmt					Rs 544079/-	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
22	Removing and resetting of footpath slab.						
	Measurements Recorded vide Excell sheet Pg nos. 45 to 46						
	Qty 2 - - - - 2					580.50 kgm	
	Rate @ Rs 21924/kgm					Rs 12726.8/-	

M. A. R. 57 (Rule 116) No. E 495716

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(23) providing and laying heavy duty cobble stones 600mm thick interlock pavers using cement & coarse sand for manufacture of blocks of approved size shape and colour with a minimum compressive strength of 28 kg/sqm over 50mm thick sandbed. and compacting with plate vibrator.						

... etc, complete

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Measurements Recorded vide Excell sheet Pg No. (47)						
5/01/2021	Qty :- - - -					2193.50 Sqmt	
	Rate @ Rs 1171.88/Sqmt					Rs 2267588/-	
					Total Rs	27866997/-	
	Ramanjeenah AE 12% GST					3344039/-	
5/01/2021	ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ					Rs 31211036/-	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು

M. A. R. 57 (Rule 116) No. E 495717

Measurement Book

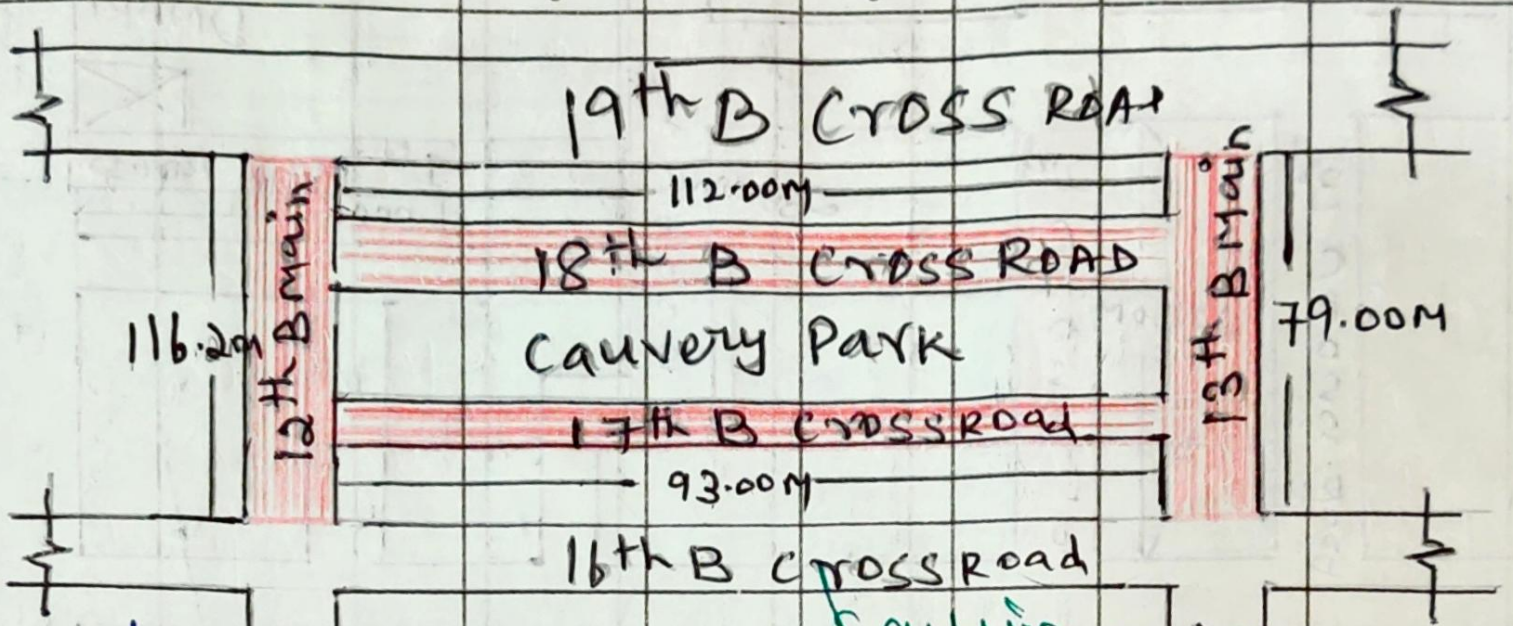
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



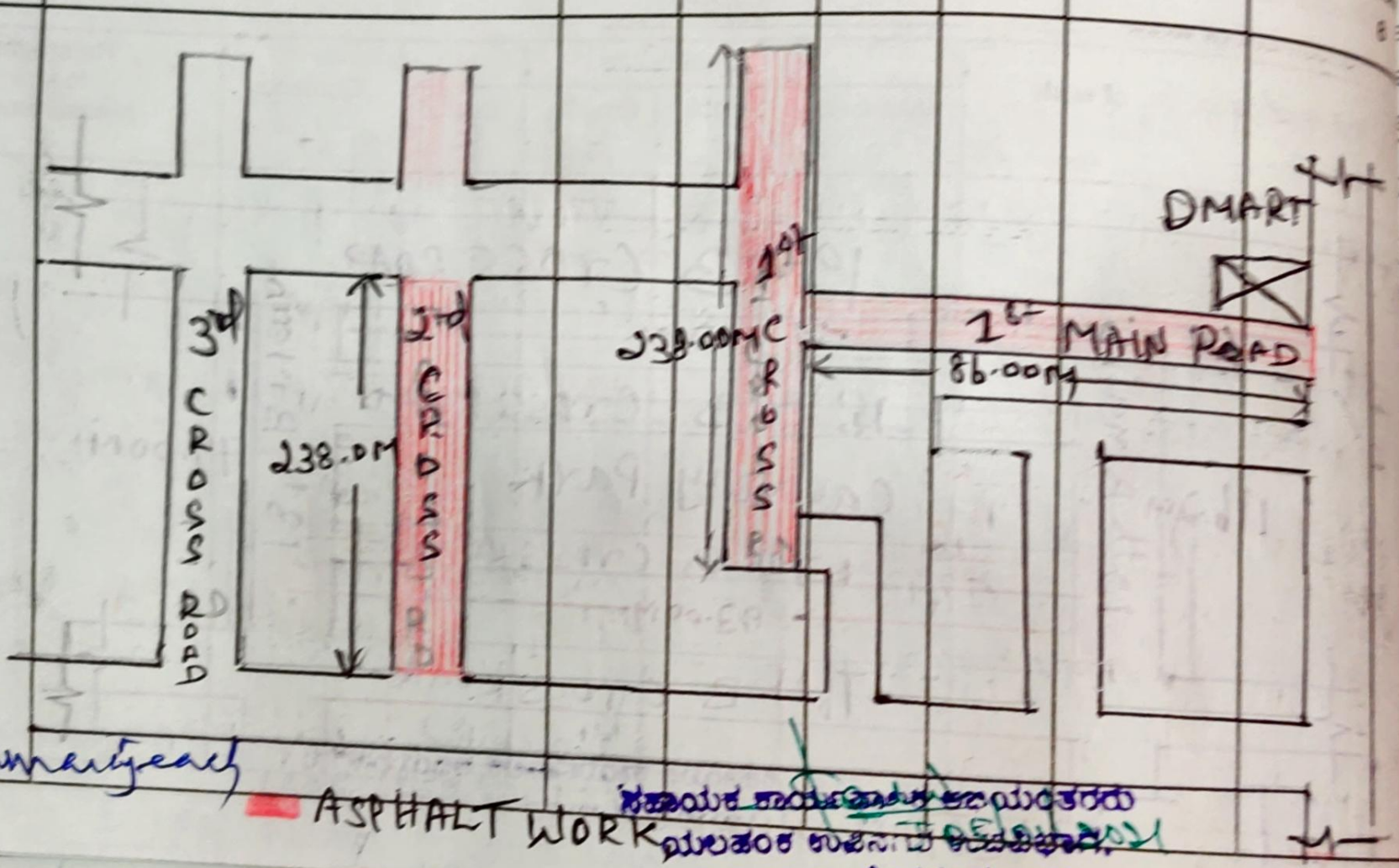
Ramanjeevaiah

ASPHALT WORK

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೆಂಗಳೂರು ಉಪವಿಭಾಗ.

MEASUREMENT BOO

Date	Full description, etc, of work	Dimensions					
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	



Ramanjeeah

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಮುಖ್ಯಮಂತ್ರಿ ಬಡಾವಣೆ ಅಭಿವೃದ್ಧಿ ಪ್ರಾಧಿಕಾರ,
ಬಿ.ಡಿ.ಎ. ಬೆಂಗಳೂರು-100

M. A. R. 57 (Rule 116) No. E

Measurement Book 495718

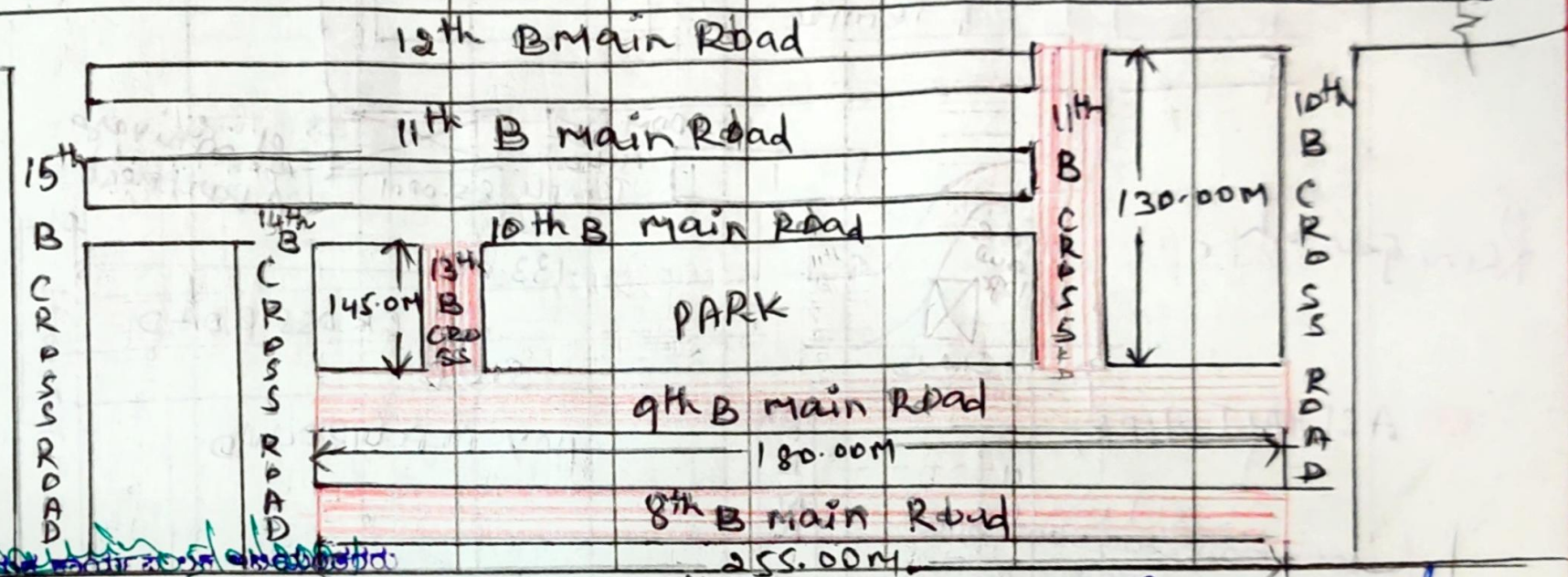
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

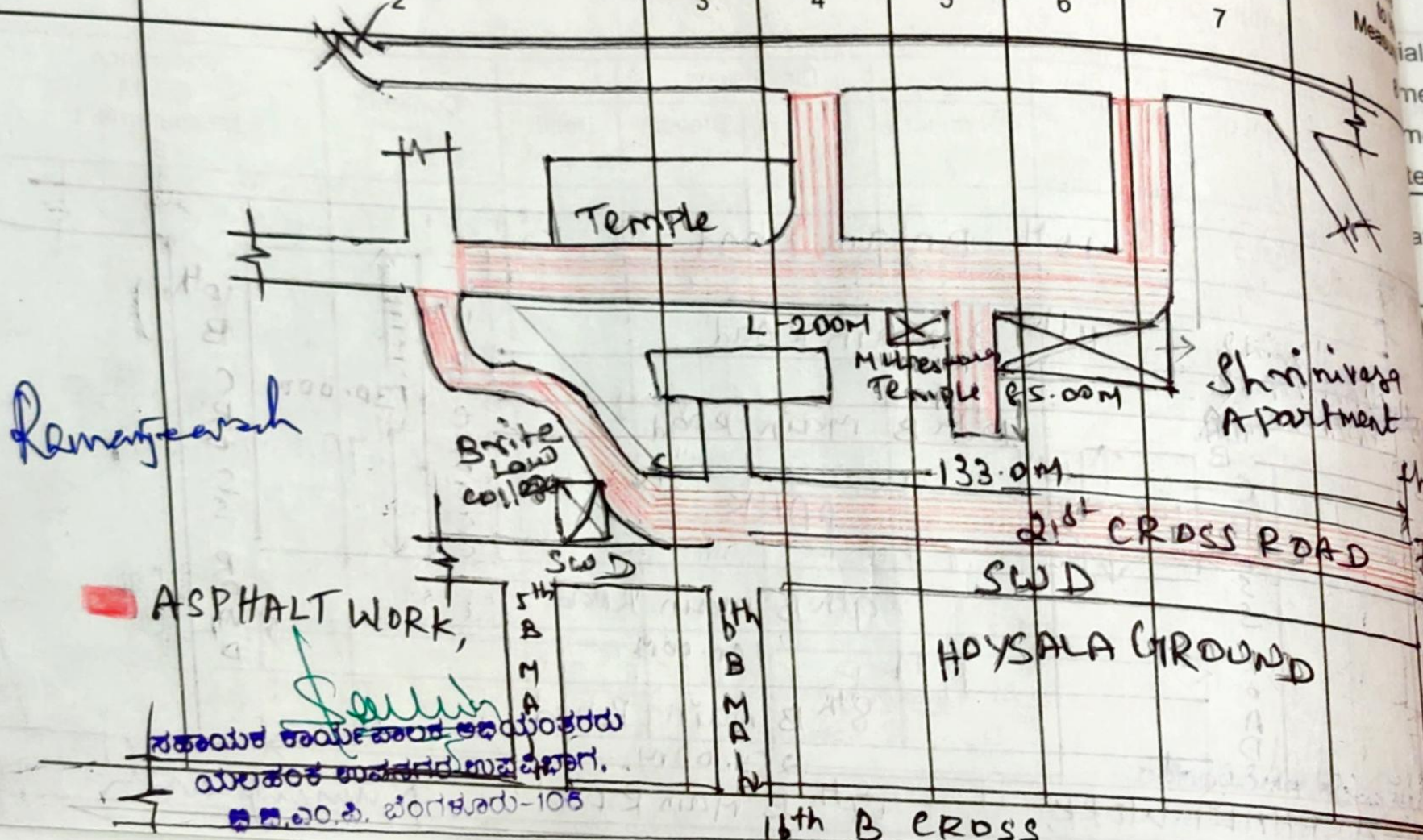


ASPHALT WORK,

Ramenjeevaiah

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Remarks
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	



Ramaj-research

ASPHALT WORK,

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

M. A. R. 57 (Rule 116)
Measurement Book

No. E 495719

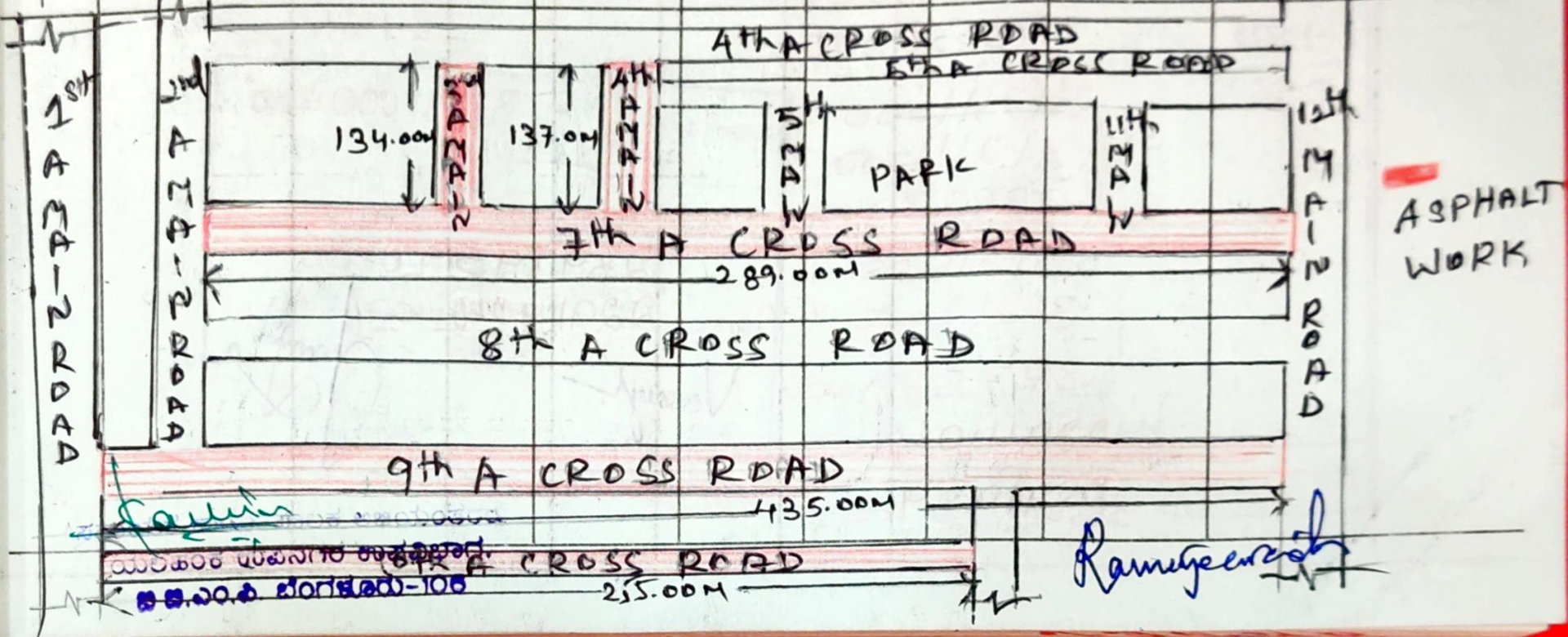
Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions: Length	Dimensions: Breadth	Dimensions: Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8



MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Gross Amt =Rs 31211000=00 FSD =Rs 1560550=00 CGST =Rs 312111=00 SGST =Rs 312111=00 =Rs 936330=00 =Rs 312111=00 =Rs 31212=00 =Rs 3875299=00 =Rs 3851954=00 Net Amount =Rs 27359046=00			BB R NO		132 8-1-21.	

Audited & Admitted for Rs. 31211000=00

Rs. 27359046=00

and Rs. 3851954=00 by adjustment

Accts Subdt.
yelahanka Division
BBMP

Exe. Engr
yelahanka
BBMP